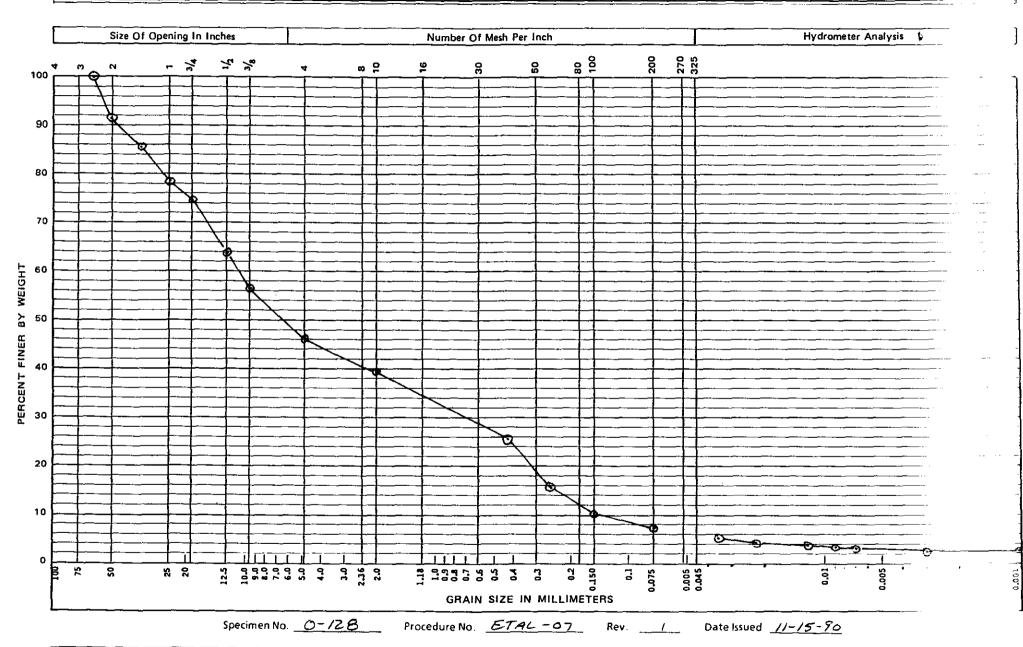
TEST REQUEST FORM

Sample/Specimen N	lo: <u>0-/28</u>	Cost Code/Work Order No. ED 332
Requested By: Or	g. <u>81232</u>	Person J. Lindberg Date 3-12-90
Test Requested	No. of Samples	Test Lab Information (Instruction Used)
Sieve Anal	<u> </u>	ETAL 07
Hydro		ETAL 07
<u>5p6</u>		ETAL 10
NA	NA	NA
	•	
Remarks_Field	Samala :	Received By: R6 Alexander Date 3-9-90
1100-Z-D	-3	
		Approved By: RG Alexander Date 3-9-90



							
			SIEVE ANAI	LYSIS DAT	A SHEET		
	Sampl	e ID <u></u> ن-	128		Page/_	of	
	Tested By R.G AIEXANDER Date 3-12-90						
	Pr	ocedure <u>-</u>	ETAC-07 Re	<u>v/</u>	Date Issued_/	11-15-89	
		EQUIPME	NT ITEM CAI	LIBRATION 1	NO. DATE D	UE	
		Balance		3304	3-25		
		Thermome		0007 N/A	8-16 ⁻ 		
Samp	le Desc	ription	SANOY		— Sieve Tir	ne <u>///</u> (r	nin)
		i by 💆 :	aplitting [gylaoote 🗆 🔃	ile	
BEF	(B) ORE TI	est wr. ~	<u>∕</u> AFTER TE	(a) st wt. 2/A	$\frac{B-A}{B} \times 100 = \nabla$	¼ % Loss	
Sieve ID Number	Sleve Slze	Sample Weight	Cumulative Wt. Retained (g)	% Retained	Cumulative %	Cumulative %	% Pass
N/A	2	5209.91		8.7	8.7	91.3	91.3
1	11/2		758.21	146	14.6	85.4	85.4
	1		1115.64	21.4	21.4	78.6	78.6
	3/4		/337.26	25.7	25.7	74.3	74.3
	1/2		1893.34	36.3	36.3	63.7	63.7
	3/8		4281.74	43.8	43.8	56.2	56.2
	#4		2807.11	53,9	53,9	46.1	46.1
	#10	1	3/5/.43	60.5	60.5	39.5	39.5
	# 40	84.98	30,11	35.4	35.4	64.6	25.5
	#60	1	51.52	60.6	60.6	39.4	15.4
	#100		62.88	74.0	74.0	24.0	16.3
1	#200	*	70.26	82.7	82.7	17.3	6.8
		Modules (FM) <u> </u>	See ASTM C 1	36-83, Section	0.2)	
MATERI	als fin	VER THAN	NO. 200 SIE	VE BY WASE			•
C=Percentage of Material Passing a 200 Sleve 17.3 % Remarks SMAULFIELD SAMPLE							
	-	eight of San		84.98 g		7.7.	·, ~~
E=Dry We	_	Sample Afte (D-E)/D> X	r Washing/Sleve	70.26 g			
							<u></u>
OF	ERATO		AINED AND U		LY RECORDEI ATED INSTRU Date		T
	=		,			-6400-204(2-67)	

GRAIN SIZE ANALYSIS PLOT



Sample Description: SANDY GRAVEL 1100-2-D-3

Plotted by: R.G. ALEXANDER Date: 3-12-90

Checked by: HCBenny

Date: 3-14-90

SOIL MOISTURE DATA SHEET

PROCEDURE NO. ETAL \$ 14 REV. NO. O

THERMOMETER NO. 0007 CALIBRATION DUE DATE 8-16-96

Sample no.	WET WT. + CAN	DRY WT. + CAN	CAN WT.	WET WT. SOIL	DRY WT. SOIL	% WATER
0-128	5435,10	5330.45	120.54	5314.54	5209.91	2.01
						- · · · · · · · · · · · · · · · · · · ·
						,
			·			
						
					<u> </u>	
/						

ALL REQUIRED DATA ARE ACCURATELY AND COMPLETELY RECORDED. THE TEST OPERATOR WAS APPROPRIATELY TRAINED AND TEST PROCEDURES FOLLOWED TO PRODUCE THE ABOVE DATA

TEST OPERATOR: R.G A/EXANDER

DATE 3-12-90

SPECIFIC GRAVITY OF SOILS DATA SHEET

mometer OC	NO. 204 207 02 54 1 N/A N/A:	DATE DUE 3-25-96 8-16-90 2-9-91 NA	3 N/A
mometer OC eter OOG er A6: DETERMINATION NO. g Container No. ontainer + Oven Dry Soil, ± 0.01g ontainer, ± 0.01g	1 N/A N/A :	3-25-96 8-16-90 2-9-91 NA	
mometer ter OO The	1 N/A N/A	8-16-90 2-9-91 NA	
ter 000 er 265 nt 'Q' WATER DETERMINATION NO. g Container No. ontainer + Oven Dry Soil, ± 0.01g ontainer, ± 0.01g	0 2 54 1 N/A N/A	2-9-91 NA 2 N/A	
DETERMINATION NO. g Container No. ontainer + Oven Dry Soil, ± 0.01g ontainer, ± 0.01g	1 N/A N/A	2 N/A	
DETERMINATION NO. g Container No. ontainer + Oven Dry Soil, ± 0.01g ontainer, ± 0.01g	N/A N/A ·	N/A	
g Container No. ontainer + Oven Dry Soil, ± 0.01g ontainer, ± 0.01g	N/A N/A ·	N/A	+
ontainer + Oven Dry Soil, ± 0.01g	N/A		NA
ontainer, ± 0.01g		1 .	
	4/A	·	
ven Dry Soil, g		-	
	40.00		
Pycnometer No.			
ycnometer, g	/35 ·Z2		
ycnometer + Wetting Agent, g		T	
ycnometer + Wetting Agent + Soil, g	411.65		
erature, T _x at W _b , °C	25./e	: -	
ic Gravity of Wetting Agent at T _x]	
ic Gravity of Soil at T _x	<u>2.59</u>		
ic Gravity of Soil at 20°C	2.58		\
$\frac{\mathbf{v}_{\mathbf{w}} \mathbf{v}_{\mathbf{o}}}{(\mathbf{w}_{\mathbf{a}} - \mathbf{w}_{\mathbf{b}})}$			
y _w = Unit Weight Of Water (g/cc) 'G _s = K _* G _t		Average Specific Gravity At 20°c	
d in ASTM D854-58, Table 1	<u> </u>	<u> </u>	
5, When Test Run at 20 °c	,		
	conometer + Wetting Agent, g conometer + Wetting Agent + Soil, g erature, T _x at W _b , °C iic Gravity of Wetting Agent at T _x iic Gravity of Soil at T _x iic Gravity of Soil at 20°C •Y _w •W ₀ (W _n - W _b) iight Of Water (g/cc) d in ASTM D854-58, Table 1 it When Test Run at 20 °c	yenometer + Wetting Agent + Soil, g yenometer +	Accommeter + Wetting Agent, g Accommeter + Wetting Agent + Soil, g A

Sample I	0-1	28		Page	e/_ of		
٠	[-	Tested By <u>H</u>	Benny	Date 3-12	-90		· · · · · · · · · · · · · · · · · · ·
	1	Procedure ETA	L D) Rev Da	nte Issued 11-15-89			: : I
		EQUIPA	MENTITEM	NO. CALIBRATION DUE DATE			:
		Hydrometer			-16-91 -25-90		
		Balance Thermomete		0007 2-			
Specific	_ aravity of	Sample2	2.58				:
•	_			HYGROSCOPIC	MOISTURE C	ONTENT	:
	_	ction Factor	9.5 (%)	Wt. Container + Air D	ry Soil/	<u>va</u> (g)
.,, 5	-	*****		Wt. Container + Over	Dry Soil	NA (g) ,
	. <u>w</u> ı	EIGHT OF SAM	PLE	Wt. Container	NA	(g)
Wt. Con	tainer + Ś	oiĺ	<i>∧</i> (g)	Water Content	NA	(%)
Wt. Con	tainer		<i>NA</i> (g)	_			
Wt. Soil <u>84.98</u> (g)		84.98 (g)	REMARKS				
	•		• · · · ·	Tube E			·
	COMI	POSITE CORRE	CTION				
1st Reac	ling	<u>Z</u> at	<u>23.5</u> ℃	W= 215.14			
2nd Rea	ading	<u>₩A</u> at	<i>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</i>				
				Pan He 22 H	B 3-13-0	90	
Date	Clock time	Elapsed time (min)	Hydrometer reading	Hydrometer with composite correction	Temp. (°C)	Soil in suspension (%)	Particle diamete (mm)
3-12-90	1104	2.0	13	11	23.4	5,2.	0.030
	1107	5.0		9	23.4	4.2.	0.02
	1/17	15.0	10	8	23.9	3.8.	0.013
	1132	30.0	9	7	23.9	3,3.	0.009
	1202	60.0	8	6	24,0	2.8.	0.007
V	1512	250.00	7	5	24.4	2.3/	0.003
3-13-90	1102	1,440.0	7	5	23.2	2.3.	0.001

A-6400-205 (1,87)

3-14-90

Date

Checked By_

(382)	Westing	house
	Hanford	house Company

SAMPLE ANALYSIS REQUEST

PART I: FIELD SECTION						
Collector Julindberg & Steve Clark Date Sampled 3-9-90 Time 12:00 hours						
Company Contact JWLindberg Telephone (509) 376-5005						
Company Cont	Company Contact JWLindberg Telephone (509) 376-5005					
Sample Number	Number and Type of Sample Containers	Type of Sample*	Analysis Requested			
HRL-H-Z	1 plastic bag set	5011	ASTM-D-422 Grain Size Analysis			
HRL-D-4	11	1/	11			
HRL-C-1	(1	11	"			
HRL-M-4	ı/	11	,,			
HRL-R-7	1/	1/	1/			
HRL-T-6-AH	-172	/1	//			
1100-3-E-5			[]			
1100-3-F-8			1/			
1100-3-H-5			1/			
1100-3-H-8		"	1/			
1/00-2-D-3		1/				
1100-2-F-4		1/	1/			
1100-2-H-1	1/	1'	(1			
1100-2-44	11	!!	(I			
<u></u>						
<u> </u>						
<u> </u>		<u> </u>				
Field Informat	ion** Run hydromete	er on all se	amples listed hereon			
	, <u>, , , , , , , , , , , , , , , , , , </u>					
Special Handli	ng and/or Storage <u>NA</u>					
			<u> </u>			
		PART II: LABORATO	RYSECTION			
1			Date			
Analysis Requi	Analysis Required					

^{*}Indicate whether sample is soil, sludge, water, etc.

**Use back of page for additional information relative to sample location.



CHAIN OF CUSTODY

Company Contact: JWLindber	79	Telephone	6-5005
Sample Collected by: Uwlindo		Date: <u>3-9-90</u>) Am Time: <u>//:20-12:004</u> h
Sample Locations: 1100-2 P			
Ice Chest No.: PA	Field	d Logbook & Page	No.:WHC-N-306,p.68
Remarks: EIT-5.2 with	,	•	:
Bill of Lading No.: NA		Site Property No.:_	NA
Method of Shipment: Hand Ca	1	11	/ - / /
Shipped to: Verry Alexander	Sample Identif	ingilan	ı
1100-2-D-3 SurfaceSoil	Sample Identif	Plastic Boas Gre	en dacttage seal
1100-2-1- Jurtace S	21 Sample	<u> </u>	11 11 11
1100-2-4-1 Surface So			
1100-2-HH- Surface So	<u> 11 Sample</u>	11 11	11 11 11

CHAIN OF POSSESSION			
Relinguished by	Received by:	I R.G. Alexa	Date/Time:
Rel/inquished by:	Received by:		Date/Time:
Relinquished by:	Received by:		Date/Time:
Relinquished by:	Received by:		Date/Time:
			FVR\071889-B

CONDITIONAL RADIATION RELEASE	CONDITIONAL RADIATION RELEASE
Instructions: Sample #/100-2-D-3	Instructions: Sample # 1100-2-F-4
outside surfaces of	- outside surfaces of
plantic bag - LD B, 8/LDL	plastic bag(covering)
Direct & Amean	aD By /LD a - smeart
	Direct
Date: 3-9-90 By: 1. M.	Date: 3-9-90 By: 1. P. Mital
Radiation Monitoring	Radiation Mg/litoring BL-6700-133 (10-77)
CONDITIONAL RADIATION RELEASE	CONDITIONAL RADIATION RELEASE
Instructions: Sample # 1100-2-4-1	Instructions: Sample # 1100-2-FH
outside surfaces of	outside jurfaces of
plastic bag - 2DB-8/4D	plastic bar + CDB X/LDJ
Direct & smean &	Direct I surear
Date: 3-9-90 By: A, M:	Date: 3-9-90 By: 1.M.
Radiation Monitoring BL-6700-133 (10-77)	Rediation Monitoring 8L-6700-133 (10-77)
ທ _ີ	
C'	
·	
_	